

13 July 1971

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Gentlemen:

Reference: [REDACTED]

In reference to our previous letter of July 2 and subsequent meeting at your [REDACTED] facility on July 8, [REDACTED] encountered considerable lost time caused by conditions beyond our control, i.e., the unavailability of the room and the environment system. As instructed in that July 8 meeting, we are hereby submitting for your disposition, a break-down, together with the reasons, for the lost time incurred to date.

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1. On April 29, 1971, vibration isolators provided [REDACTED] were to be mounted to the building floor by another contractor involving the pouring of grout around the base of the dash pot to properly secure them to the building floor. It was necessary to have the dash pots installed in order [REDACTED] to do the wiring and provide the air plumbing to the measuring stages. The contractor doing this installation ran into difficulties in pouring the grout in that the seals around the base of the dash pots leaked, allowing the grouting material to flow out of the dam into the surrounding area. The contractor rebuilt the dams and repoured the grout after having some difficulty in obtaining the additional grout. The lost time by [REDACTED] personnel by days is as follows:

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April 29	32 hours
April 30	32 hours
May 3	32 hours
May 4	32 hours
May 5	16 hours
May 6	32 hours
May 7	32 hours
May 10	20 hours
May 11	32 hours
May 12	8 hours

Total time involved 268 hours

Total Per Diem days lost 49

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2. On May 17 it was discovered that the false floor surrounding the machine did not allow proper clearance for the lamphouse and proper space to align the optics. It was necessary for the contractor involved with the flooring to remove portions of the floor and rework with the proper clearances. The standby time effected by this was:

May 17	18 hours
May 18	18 hours
May 19	18 hours
May 20	18 hours
May 24	8 hours
May 25	8 hours
Total time involved	88 hours

Total Per Diem days lost 8

It is felt [] that the problem of the flooring was one which was difficult for the flooring contractor to plan for, and that this problem is one that could reasonably be encountered in an interface between a sophisticated piece of equipment and a room installation. Therefore [] will not be including this problem in the total standby cost.

3. [] given instructions to the room contractor to "close the room." There was only one man provided by the room contractor to complete this closing work, and [] had standby time during the following period:

June 9	16 hours
June 10	16 hours
June 11	16 hours
June 14	16 hours
June 15	8 hours
Total time involved	72 hours

Total Per Diem days lost 13

During this period [] two men to assist the contractor in closing the room, thus minimizing this lost time.

4. For several weeks preceding July 6 the contractor responsible for the room environment system was working on the system to bring it to within the specified requirements [] continued to work on as much of our installation as could be effectively accomplished during

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STATINTL the period of environment adjustment. As was stated in my letter of July 2, [] would reach a point on July 6 where they could no longer effectively work because of the environmental conditions existing in the room, and standby time occurred as follows:

July 6	40 hours
July 7	40 hours
July 8	40 hours
July 9	40 hours

Time involved through the period of July 9 160 hours

The Per Diem involved through July 11 is 30 days.

STATINTL As of July 9 the room was still not to the environment specification and it is anticipated that additional lost time will be occurring. [] will submit any further lost time as it occurs.

STATINTL The detailed cost to date, reflected in the above paragraphs, is as follows:

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Because of the extreme humidity and temperature the equipment has been subjected to during the period of environment adjustment, there is certain apparent damage [] has visually examined the equipment at this time and has prepared a proposal for corrections of these impairments. These estimates cover only what we can visually see since we cannot operate the equipment at this time. There is a great possibility and concern on the part [] that other damage caused by environment has occurred which will not be obvious until the equipment is in operation. Should this be the case the damage will be identified and a repair estimate will be given at that time.

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As a result of the high humidity rust and corrosion is appearing on some of the major components. There are two alternatives to correct this problem.

Alternate one is to leave the system intact and to clean off all of the obvious corrosion and rust as well as we can. This process will be helpful at the present, however it will not correct the potential of future corrosion. This cleanup work would include only the parts and assemblies to which we have ready access without disturbing the basic system. It is estimated it will take 100 man hours at a cost [] to accomplish the work.

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The second alternative is to disassemble the effected subassemblies separately, refinish the parts, and reassemble, install, and realign the system. In this category one of the subassemblies visually effected is the interferometer. It is estimated that we can disassemble, recondition the mechanical parts, reassemble and align this unit in 500 hours at a cost []

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Rust and corrosion is also apparent in the optical system. At this time we cannot determine the extent or effect of this on the performance of the system. However, to properly correct the affected parts would require disassembling, correction of the components, and reassembly of the complete optical system. This would be an extensive undertaking, possibly involving the requirement for special tools, equipment and personnel of the manufacturer. [] is not prepared to estimate the cost involved at this time. However if you decide that you wish to pursue this further, [] could provide a cost estimate.

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Attached is a detailed break-down on the priced alternates discussed above.

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[] management and technical personnel are available to discuss or furnish any additional information you might require regarding the subjects covered.

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